(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date23 September 2004 (23.09.2004)

PCT

(10) International Publication Number WO 2004/081310 A3

(51) International Patent Classification7:

E04B 1/12

(21) International Application Number:

PCT/RO2004/000005

(22) International Filing Date: 8 March 2004 (08.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: a2003 00214

12 March 2003 (12.03.2003) RO

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,

PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

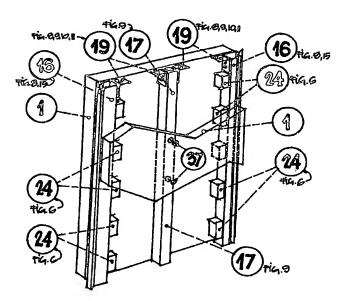
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 25 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THE STRUCTURE AND THE ENVELOPE OF A PREFABRICATED PANEL BUILDING AND THE METHOD OF ASSEMBLY



(57) Abstract: The Object of this Invention is the Structure and the Envelope of a Building made with Prefabricated Panels and the Method of Assembly. The novelty resides in the use of a building structure as an articulated steel frame made of steel tubes for vertical members, continuous perimeter steel plates, open web steel trusses for floor's structural elements, compressed agricultural fiber panels which sandwich all structural elements and the method of assembling these components as a light, earthquake resistant, easy to assemble, environmentally safe building and several other new properties.

INTERNATIONAL SEARCH REPORT

International Application No T/R02004/00005
T/R02004/000005

A. CLA	SSIECATION	OF CUID IFOR HA	-
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - E04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category •	Citation of document, with Indication, where appropriate, of	the relevant passages	Relevant to dalm No.
X	US 6 427 407 B1 (WILSON STUAR 6 August 2002 (2002-08-06) column 3, line 47 - column 9, figures 5,9		1,5,6
X	US 4 936 540 A (BOESHART PATR: 26 June 1990 (1990-06-26) figure 10	ICK E)	2
X	US 2002/134036 A1 (PONKO EDMUI 26 September 2002 (2002-09-26) page 6, paragraph 74; figure 8)	3
Y	US 6 263 636 B1 (CORSTON CHARD 24 July 2001 (2001-07-24) abstract	LES)	4
X Furthe	er documents are listed in the continuation of box C.	-/ χ Patent family members are listed	in annex.
A* documer conside E* earlier do filing da L* documen which is citation O* documer other m P* documen later tha	at which may throw doubts on priority claim(s) or setted to establish the publication date of another or other special reason (as specified)	"T" later document published after the interest or priority date and not in conflict with cited to understand the principle or the invention. "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an in document is combined with one or ments, such combination being obvious in the art. "&" document member of the same patent.	emational filing date the application but eory underlying the claimed invention the considered to current is taken alone claimed invention ventive step when the pre other such docu- us to a person skilled
5	October 2004	13/10/2004	ion report
ame and ma	alting address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Nilsson, L	

INTERNATIONAL SEARCH REPORT

International Application No
T/R02004/00005

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	T/R02004/000005
Category *		Relevant to claim No.
Y	WO 02/101169 A (NIPPON STEEL CORP; SHIMIZU JUN (JP); KAWAI YOSHIMICHI (JP)) 19 December 2002 (2002-12-19) figures 3,4	4
A	CA 2 274 287 A (DI LORENZO NICK) 9 December 1999 (1999-12-09) the whole document	1-6
A	US 5 608 999 A (MCNAMARA BERNARD) 11 March 1997 (1997-03-11) the whole document	1-6
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		·
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No T/R02004/00005

cite	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	6427407	B1	06-08-2002	CN	1272582	A	08-11-2000
				CA	2299925		30-09-2000
				JP	2000309991		07-11-2000
	4006540						
<u></u>	4936540 	A 	26-06-1990 	US 	4938449	Α	03-07-1990
US	2002134036	A1	26-09-2002	US	6761005	B1	13-07-2004
				US	6301854		16-10-2001
				US	2004074178		22-04-2004
				US	2002035815		28-03-2002
				ΑU	731914		05-04-2001
				ΑU	6267999		13-06-2000
				CA	2319346		02-06-2000
				EP	1253256		30-10-2002
				EP	1049836		08-11-2000
				TR	200002115		22-01-2001
				WO	0031354	ĀĪ	02-06-2000
US	6263636	B1	24-07-2001	US	5718092	Α	17-02-1998
				US	5403414	Α	04-04-1995
				CA	2146055	A1	22-03-1996
	•			CA	2063629	A1	19-03-1993
				US	5254203	Α	19-10-1993
WO	02101169	Α	19-12-2002	JP	2002364113	A	18-12-2002
				WO	02101169		19-12-2002
				TW	539796		01-07-2003
~				US	2004154257		12-08-2004
CA	2274287	Α	09-12-1999	CA	2240098	A1	09-12-1999
				CA	2274287		09-12-1999
				AU ·	5381400		02-01-2001
				WO	0077317	A1	21-12-2000
				ΕP	1185748		13-03-2002
				US	6698150		02-03-2004
				US	2004139674		22-07-2004
				US	6260320	B1	17-07-2001
US	5608999	Α	11-03-1997	NONE			